

Southern Region HIV Annual Epidemiological Profile

Data reported through June 30, 2017

Center for HIV Surveillance, Epidemiology and Evaluation Infectious Disease Prevention and Health Services Bureau Prevention and Health Promotion Administration Maryland Department of Health http://phpa.health.maryland.gov/OIDEOR/CHSE 1-800-358-9001

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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in
 correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report
 patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department
 where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are
 also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health
 to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 12/31/2016. Nationally, it has been estimated that 15.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 15.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of 12/31/2016. Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted

to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2017. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent eight and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

| Time Point | Biological Event | Medical Event | Surveillance Event |
|------------|------------------|-----------------|--------------------|
| 1 | HIV Infection | | |
| 2 | | HIV Diagnosis | |
| 3 | | | HIV Report |
| 4 | AIDS Conditions | | |
| 5 | | AIDS Diagnosis | |
| 6 | | | AIDS Report |
| 7 | Death | | |
| 8 | | Death Diagnosis | |
| 9 | | | Death Report |

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag,

and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2016 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2016-12/31/2016, as reported by name through 6/30/2017.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 6/30/2017 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2016 as reported by name through 6/30/2017.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14%. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2017.

Population data by sex, age, and race/ethnicity are from the July 1, 2016 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2015 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2015 HIV Surveillance Supplemental Report published July 2017. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates.

MDH Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

English

Help is available in your language: 410-767-5227 (TTY: 1-800-735-2258). These services are available for free.

Español/Spanish

Hay ayuda disponible en su idioma: 410-767-5227 (TTY: 1-800-735-2258). Estos servicios están disponibles gratis.

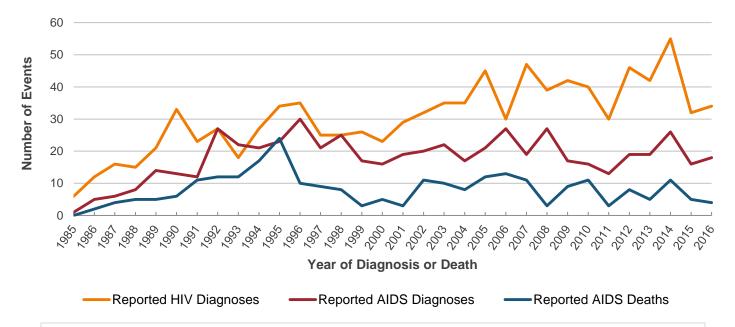
中文/Chinese

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Section II - Trends 1985-2016

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2016, Reported through 6/30/2017

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2016 as Reported through 6/30/2017



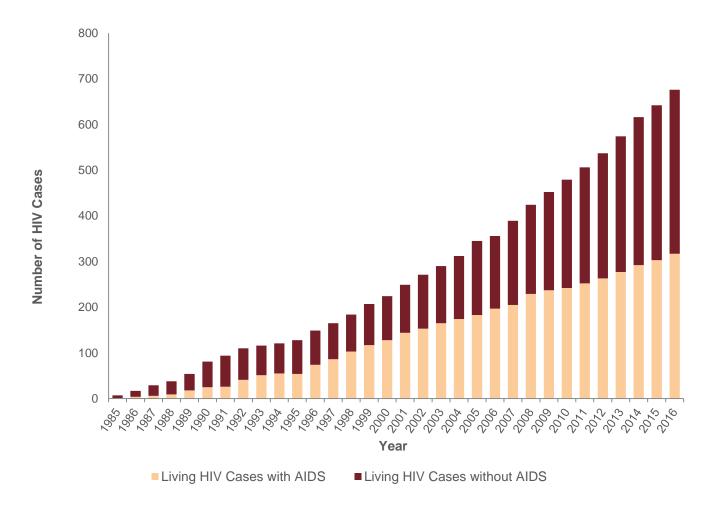
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

| YEAR OF DIAGNOSIS OR DEATH | REPORTED HIV DIAGNOSES | REPORTED AIDS DIAGNOSES | REPORTED AIDS DEATHS | YEAR OF DIAGNOSIS OR DEATH | REPORTED HIV DIAGNOSES | REPORTED AIDS DIAGNOSES | REPORTED AIDS DEATHS |
|----------------------------------|------------------------------|-------------------------------|----------------------------|----------------------------------|------------------------------|-------------------------------|----------------------------|
| <1985 | 2 | 1 | 1 | 2001 | 29 | 19 | 3 |
| 1985 | 6 | 1 | 0 | 2002 | 32 | 20 | 11 |
| 1986 | 12 | 5 | 2 | 2003 | 35 | 22 | 10 |
| 1987 | 16 | 6 | 4 | 2004 | 35 | 17 | 8 |
| 1988 | 15 | 8 | 5 | 2005 | 45 | 21 | 12 |
| 1989 | 21 | 14 | 5 | 2006 | 30 | 27 | 13 |
| 1990 | 33 | 13 | 6 | 2007 | 47 | 19 | 11 |
| 1991 | 23 | 12 | 11 | 2008 | 39 | 27 | 3 |
| 1992 | 27 | 27 | 12 | 2009 | 42 | 17 | 9 |
| 1993 | 18 | 22 | 12 | 2010 | 40 | 16 | 11 |
| 1994 | 27 | 21 | 17 | 2011 | 30 | 13 | 3 |
| 1995 | 34 | 23 | 24 | 2012 | 46 | 19 | 8 |
| 1996 | 35 | 30 | 10 | 2013 | 42 | 19 | 5 |
| 1997 | 25 | 21 | 9 | 2014 | 55 | 26 | 11 |
| 1998 | 25 | 25 | 8 | 2015* | 32 | 16 | 5 |
| 1999 | 26 | 17 | 3 | 2016* | 34 | 18 | 4 |
| 2000 | 23 | 16 | 5 | TOTAL | 981 | 578 | 261 |

^{*2015-2016} reported AIDS deaths are preliminary.

Figure 2 – Trends in Living HIV Cases, 1985-2016, Reported through 6/30/2017

Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2016, as Reported through 6/30/2017

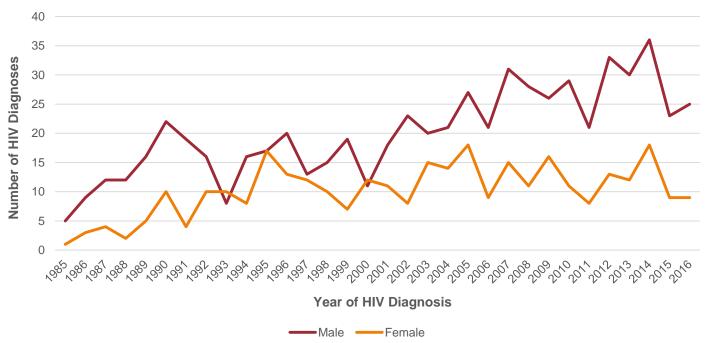


| YEAR | LIVING HIV CASES WITHOUT AIDS | LIVING HIV CASES WITH AIDS | TOTAL LIVING HIV CASES | YEAR | LIVING HIV CASES WITHOUT AIDS | LIVING HIV CASES WITH AIDS | TOTAL LIVING HIV CASES |
|------|-------------------------------|----------------------------------|---------------------------|------|-------------------------------|----------------------------------|---------------------------|
| 1985 | 6 | 1 | 7 | 2001 | 105 | 144 | 249 |
| 1986 | 13 | 4 | 17 | 2002 | 118 | 153 | 271 |
| 1987 | 23 | 6 | 29 | 2003 | 125 | 165 | 290 |
| 1988 | 29 | 9 | 38 | 2004 | 138 | 174 | 312 |
| 1989 | 36 | 18 | 54 | 2005 | 162 | 183 | 345 |
| 1990 | 56 | 25 | 81 | 2006 | 159 | 197 | 356 |
| 1991 | 68 | 26 | 94 | 2007 | 184 | 205 | 389 |
| 1992 | 69 | 41 | 110 | 2008 | 195 | 229 | 424 |
| 1993 | 65 | 51 | 116 | 2009 | 215 | 237 | 452 |
| 1994 | 66 | 55 | 121 | 2010 | 237 | 242 | 479 |
| 1995 | 74 | 54 | 128 | 2011 | 254 | 252 | 506 |
| 1996 | 75 | 74 | 149 | 2012 | 274 | 263 | 537 |
| 1997 | 79 | 86 | 165 | 2013 | 297 | 277 | 574 |
| 1998 | 81 | 103 | 184 | 2014 | 324 | 292 | 616 |
| 1999 | 90 | 117 | 207 | 2015 | 339 | 303 | 642 |
| 2000 | 96 | 128 | 224 | 2016 | 359 | 317 | 676 |

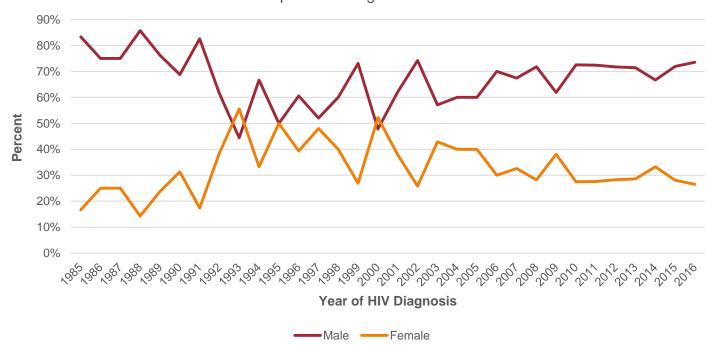
Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017

Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017





Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017

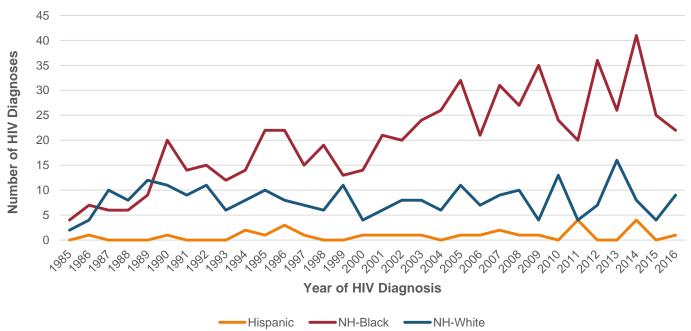


| | | ADULT/ADOLESC | ENT REPORTED HIV DI | AGNOSES | | |
|-----------------------|-----|---------------|---------------------|---------|-------|--|
| V IIIV D | | | SEX AT BIF | RTH | | |
| YEAR OF HIV DIAGNOSIS | No. | Male | | Female | | |
| | | No. | % | No. | % | |
| <1985 | 2 | 2 | 100.0% | 0 | 0.0% | |
| 1985 | 6 | 5 | 83.3% | 1 | 16.7% | |
| 1986 | 12 | 9 | 75.0% | 3 | 25.0% | |
| 1987 | 16 | 12 | 75.0% | 4 | 25.0% | |
| 1988 | 14 | 12 | 85.7% | 2 | 14.3% | |
| 1989 | 21 | 16 | 76.2% | 5 | 23.8% | |
| 1990 | 32 | 22 | 68.8% | 10 | 31.3% | |
| 1991 | 23 | 19 | 82.6% | 4 | 17.4% | |
| 1992 | 26 | 16 | 61.5% | 10 | 38.5% | |
| 1993 | 18 | 8 | 44.4% | 10 | 55.6% | |
| 1994 | 24 | 16 | 66.7% | 8 | 33.3% | |
| 1995 | 34 | 17 | 50.0% | 17 | 50.0% | |
| 1996 | 33 | 20 | 60.6% | 13 | 39.4% | |
| 1997 | 25 | 13 | 52.0% | 12 | 48.0% | |
| 1998 | 25 | 15 | 60.0% | 10 | 40.0% | |
| 1999 | 26 | 19 | 73.1% | 7 | 26.9% | |
| 2000 | 23 | 11 | 47.8% | 12 | 52.2% | |
| 2001 | 29 | 18 | 62.1% | 11 | 37.9% | |
| 2002 | 31 | 23 | 74.2% | 8 | 25.8% | |
| 2003 | 35 | 20 | 57.1% | 15 | 42.9% | |
| 2004 | 35 | 21 | 60.0% | 14 | 40.0% | |
| 2005 | 45 | 27 | 60.0% | 18 | 40.0% | |
| 2006 | 30 | 21 | 70.0% | 9 | 30.0% | |
| 2007 | 46 | 31 | 67.4% | 15 | 32.6% | |
| 2008 | 39 | 28 | 71.8% | 11 | 28.2% | |
| 2009 | 42 | 26 | 61.9% | 16 | 38.1% | |
| 2010 | 40 | 29 | 72.5% | 11 | 27.5% | |
| 2011 | 29 | 21 | 72.4% | 8 | 27.6% | |
| 2012 | 46 | 33 | 71.7% | 13 | 28.3% | |
| 2013 | 42 | 30 | 71.4% | 12 | 28.6% | |
| 2014 | 54 | 36 | 66.7% | 18 | 33.3% | |
| 2015 | 32 | 23 | 71.9% | 9 | 28.1% | |
| 2016 | 34 | 25 | 73.5% | 9 | 26.5% | |
| Total | 969 | 644 | 66.5% | 325 | 33.5% | |

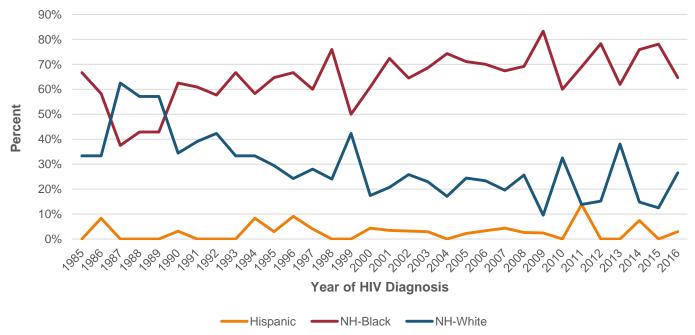
Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017





Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017

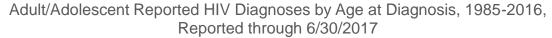


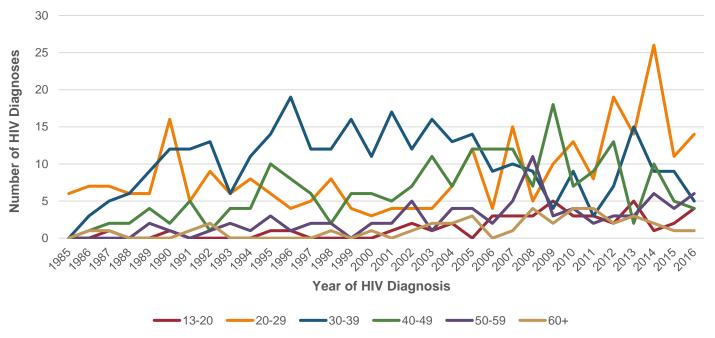
Non-Hispanic Other race not shown

| | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES | | | | | | | | | | | | |
|------------------|---|-------|-------|--------------------|---------|--------------------|-------|----------------------------|-------|--|--|--|--|
| YEAR OF | | | | | RACE/ET | | | | | | | | |
| HIV Diagnosis | No. | Hispa | nic | Non-Hispan only | | Non-Hispan only | • | Non-Hispanic Other Race | | | | | |
| | | No. | % | No. | % | No. | % | No. | % | | | | |
| <1985 | 2 | 0 | 0.0% | 1 | 50.0% | 1 | 50.0% | 0 | 0.0% | | | | |
| 1985 | 6 | 0 | 0.0% | 4 | 66.7% | 2 | 33.3% | 0 | 0.0% | | | | |
| 1986 | 12 | 1 | 8.3% | 7 | 58.3% | 4 | 33.3% | 0 | 0.0% | | | | |
| 1987 | 16 | 0 | 0.0% | 6 | 37.5% | 10 | 62.5% | 0 | 0.0% | | | | |
| 1988 | 14 | 0 | 0.0% | 6 | 42.9% | 8 | 57.1% | 0 | 0.0% | | | | |
| 1989 | 21 | 0 | 0.0% | 9 | 42.9% | 12 | 57.1% | 0 | 0.0% | | | | |
| 1990 | 32 | 1 | 3.1% | 20 | 62.5% | 11 | 34.4% | 0 | 0.0% | | | | |
| 1991 | 23 | 0 | 0.0% | 14 | 60.9% | 9 | 39.1% | 0 | 0.0% | | | | |
| 1992 | 26 | 0 | 0.0% | 15 | 57.7% | 11 | 42.3% | 0 | 0.0% | | | | |
| 1993 | 18 | 0 | 0.0% | 12 | 66.7% | 6 | 33.3% | 0 | 0.0% | | | | |
| 1994 | 24 | 2 | 8.3% | 14 | 58.3% | 8 | 33.3% | 0 | 0.0% | | | | |
| 1995 | 34 | 1 | 2.9% | 22 | 64.7% | 10 | 29.4% | 1 | 2.9% | | | | |
| 1996 | 33 | 3 | 9.1% | 22 | 66.7% | 8 | 24.2% | 0 | 0.0% | | | | |
| 1997 | 25 | 1 | 4.0% | 15 | 60.0% | 7 | 28.0% | 2 | 8.0% | | | | |
| 1998 | 25 | 0 | 0.0% | 19 | 76.0% | 6 | 24.0% | 0 | 0.0% | | | | |
| 1999 | 26 | 0 | 0.0% | 13 | 50.0% | 11 | 42.3% | 2 | 7.7% | | | | |
| 2000 | 23 | 1 | 4.3% | 14 | 60.9% | 4 | 17.4% | 4 | 17.4% | | | | |
| 2001 | 29 | 1 | 3.4% | 21 | 72.4% | 6 | 20.7% | 1 | 3.4% | | | | |
| 2002 | 31 | 1 | 3.2% | 20 | 64.5% | 8 | 25.8% | 2 | 6.5% | | | | |
| 2003 | 35 | 1 | 2.9% | 24 | 68.6% | 8 | 22.9% | 2 | 5.7% | | | | |
| 2004 | 35 | 0 | 0.0% | 26 | 74.3% | 6 | 17.1% | 3 | 8.6% | | | | |
| 2005 | 45 | 1 | 2.2% | 32 | 71.1% | 11 | 24.4% | 1 | 2.2% | | | | |
| 2006 | 30 | 1 | 3.3% | 21 | 70.0% | 7 | 23.3% | 1 | 3.3% | | | | |
| 2007 | 46 | 2 | 4.3% | 31 | 67.4% | 9 | 19.6% | 4 | 8.7% | | | | |
| 2008 | 39 | 1 | 2.6% | 27 | 69.2% | 10 | 25.6% | 1 | 2.6% | | | | |
| 2009 | 42 | 1 | 2.4% | 35 | 83.3% | 4 | 9.5% | 2 | 4.8% | | | | |
| 2010 | 40 | 0 | 0.0% | 24 | 60.0% | 13 | 32.5% | 3 | 7.5% | | | | |
| 2011 | 29 | 4 | 13.8% | 20 | 69.0% | 4 | 13.8% | 1 | 3.4% | | | | |
| 2012 | 46 | 0 | 0.0% | 36 | 78.3% | 7 | 15.2% | 3 | 6.5% | | | | |
| 2013 | 42 | 0 | 0.0% | 26 | 61.9% | 16 | 38.1% | 0 | 0.0% | | | | |
| 2014 | 54 | 4 | 7.4% | 41 | 75.9% | 8 | 14.8% | 1 | 1.9% | | | | |
| 2015 | 32 | 0 | 0.0% | 25 | 78.1% | 4 | 12.5% | 3 | 9.4% | | | | |
| 2016 | 34 | 1 | 2.9% | 22 | 64.7% | 9 | 26.5% | 2 | 5.9% | | | | |
| TOTAL | 969 | 28 | 2.9% | 644 | 66.5% | 258 | 26.6% | 39 | 4.0% | | | | |

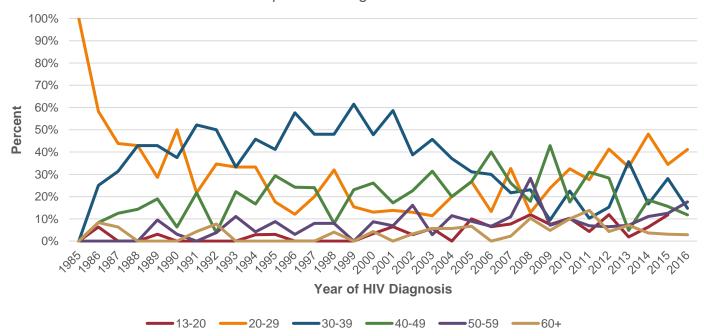
Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017





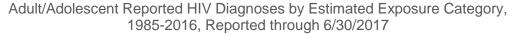
Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017

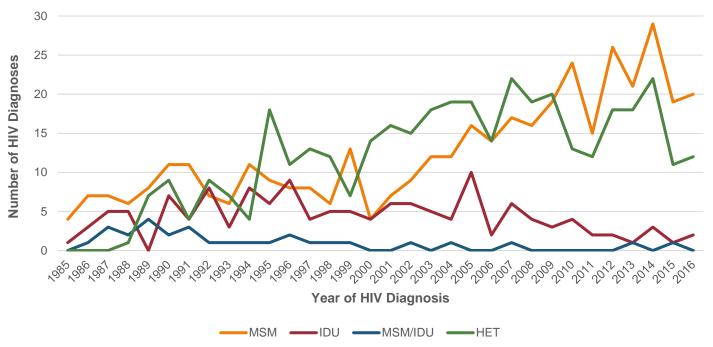


| | | | | | REPORTED | ADULT/A | DOLESCE | NT HIV D | IAGNOSES | | | | |
|-------------|-----|-----|----------------------|-----|-----------|---------|-----------|----------|----------|-----|-------|-----|-------|
| YEAR OF HIV | | | AGE AT HIV DIAGNOSIS | | | | | | | | | | |
| DIAGNOSIS | No. | Age | 13-19 | Age | Age 20-29 | | Age 30-39 | | 40-49 | Age | 50-59 | Age | 60+ |
| | | No. | % | No. | % | No. | % | No. | % | No. | % | No. | % |
| <1985 | 2 | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% | 1 | 50.0% | 0 | 0.0% | 0 | 0.0% |
| 1985 | 6 | 0 | 0.0% | 6 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 1986 | 12 | 0 | 0.0% | 7 | 58.3% | 3 | 25.0% | 1 | 8.3% | 0 | 0.0% | 1 | 8.3% |
| 1987 | 16 | 1 | 6.3% | 7 | 43.8% | 5 | 31.3% | 2 | 12.5% | 0 | 0.0% | 1 | 6.3% |
| 1988 | 14 | 0 | 0.0% | 6 | 42.9% | 6 | 42.9% | 2 | 14.3% | 0 | 0.0% | 0 | 0.0% |
| 1989 | 21 | 0 | 0.0% | 6 | 28.6% | 9 | 42.9% | 4 | 19.0% | 2 | 9.5% | 0 | 0.0% |
| 1990 | 32 | 1 | 3.1% | 16 | 50.0% | 12 | 37.5% | 2 | 6.3% | 1 | 3.1% | 0 | 0.0% |
| 1991 | 23 | 0 | 0.0% | 5 | 21.7% | 12 | 52.2% | 5 | 21.7% | 0 | 0.0% | 1 | 4.3% |
| 1992 | 26 | 0 | 0.0% | 9 | 34.6% | 13 | 50.0% | 1 | 3.8% | 1 | 3.8% | 2 | 7.7% |
| 1993 | 18 | 0 | 0.0% | 6 | 33.3% | 6 | 33.3% | 4 | 22.2% | 2 | 11.1% | 0 | 0.0% |
| 1994 | 24 | 0 | 0.0% | 8 | 33.3% | 11 | 45.8% | 4 | 16.7% | 1 | 4.2% | 0 | 0.0% |
| 1995 | 34 | 1 | 2.9% | 6 | 17.6% | 14 | 41.2% | 10 | 29.4% | 3 | 8.8% | 0 | 0.0% |
| 1996 | 33 | 1 | 3.0% | 4 | 12.1% | 19 | 57.6% | 8 | 24.2% | 1 | 3.0% | 0 | 0.0% |
| 1997 | 25 | 0 | 0.0% | 5 | 20.0% | 12 | 48.0% | 6 | 24.0% | 2 | 8.0% | 0 | 0.0% |
| 1998 | 25 | 0 | 0.0% | 8 | 32.0% | 12 | 48.0% | 2 | 8.0% | 2 | 8.0% | 1 | 4.0% |
| 1999 | 26 | 0 | 0.0% | 4 | 15.4% | 16 | 61.5% | 6 | 23.1% | 0 | 0.0% | 0 | 0.0% |
| 2000 | 23 | 0 | 0.0% | 3 | 13.0% | 11 | 47.8% | 6 | 26.1% | 2 | 8.7% | 1 | 4.3% |
| 2001 | 29 | 1 | 3.4% | 4 | 13.8% | 17 | 58.6% | 5 | 17.2% | 2 | 6.9% | 0 | 0.0% |
| 2002 | 31 | 2 | 6.5% | 4 | 12.9% | 12 | 38.7% | 7 | 22.6% | 5 | 16.1% | 1 | 3.2% |
| 2003 | 35 | 1 | 2.9% | 4 | 11.4% | 16 | 45.7% | 11 | 31.4% | 1 | 2.9% | 2 | 5.7% |
| 2004 | 35 | 2 | 5.7% | 7 | 20.0% | 13 | 37.1% | 7 | 20.0% | 4 | 11.4% | 2 | 5.7% |
| 2005 | 45 | 0 | 0.0% | 12 | 26.7% | 14 | 31.1% | 12 | 26.7% | 4 | 8.9% | 3 | 6.7% |
| 2006 | 30 | 3 | 10.0% | 4 | 13.3% | 9 | 30.0% | 12 | 40.0% | 2 | 6.7% | 0 | 0.0% |
| 2007 | 46 | 3 | 6.5% | 15 | 32.6% | 10 | 21.7% | 12 | 26.1% | 5 | 10.9% | 1 | 2.2% |
| 2008 | 39 | 3 | 7.7% | 5 | 12.8% | 9 | 23.1% | 7 | 17.9% | 11 | 28.2% | 4 | 10.3% |
| 2009 | 42 | 5 | 11.9% | 10 | 23.8% | 4 | 9.5% | 18 | 42.9% | 3 | 7.1% | 2 | 4.8% |
| 2010 | 40 | 3 | 7.5% | 13 | 32.5% | 9 | 22.5% | 7 | 17.5% | 4 | 10.0% | 4 | 10.0% |
| 2011 | 29 | 3 | 10.3% | 8 | 27.6% | 3 | 10.3% | 9 | 31.0% | 2 | 6.9% | 4 | 13.8% |
| 2012 | 46 | 2 | 4.3% | 19 | 41.3% | 7 | 15.2% | 13 | 28.3% | 3 | 6.5% | 2 | 4.3% |
| 2013 | 42 | 5 | 11.9% | 14 | 33.3% | 15 | 35.7% | 2 | 4.8% | 3 | 7.1% | 3 | 7.1% |
| 2014 | 54 | 1 | 1.9% | 26 | 48.1% | 9 | 16.7% | 10 | 18.5% | 6 | 11.1% | 2 | 3.7% |
| 2015 | 32 | 2 | 6.3% | 11 | 34.4% | 9 | 28.1% | 5 | 15.6% | 4 | 12.5% | 1 | 3.1% |
| 2016 | 34 | 4 | 11.8% | 14 | 41.2% | 5 | 14.7% | 4 | 11.8% | 6 | 17.6% | 1 | 2.9% |
| TOTAL | 969 | 45 | 4.6% | 276 | 28.5% | 322 | 33.2% | 205 | 21.2% | 82 | 8.5% | 39 | 4.0% |

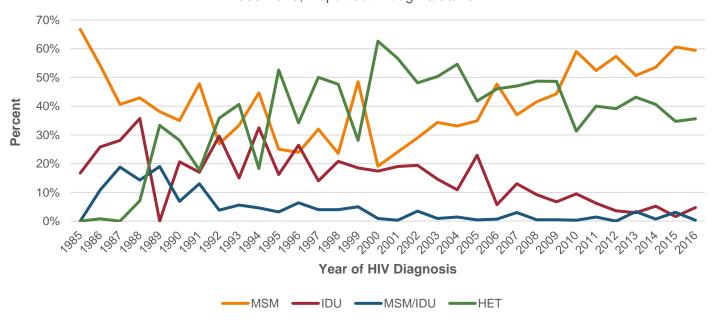
Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017

Number and Percent by Estimated Exposure Category§ of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017





Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017



Other Exposure Category not shown

§ Multiple imputation was used to estimate and adjust for missing transmission category.

| | | | | A | DULT/ADO | LESCENT F | REPORTED | HIV DIAGN | NOSES | | | |
|------------------|-------|-----------------------------------|-----|--------|----------|---------------------|-----------|-----------|-------------------|-------|-------------|-------|
| YEAR OF | | % with No | | | | ESTIMA ⁻ | TED EXPOS | SURE CATE | GORY [§] | | | |
| HIV Diagnosis | No.** | Reported Exposure [¥] | M | SM | ID | U | MSM | /IDU | HE | ĒΤ | Oth Expo | |
| | | | No. | % | No. | % | No. | % | No. | % | No. | % |
| <1985 | 2 | 0.0% | 2 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| 1985 | 6 | 16.7% | 4 | 66.7% | 1 | 16.7% | 0 | 0.0% | 0 | 0.0% | 1 | 16.7% |
| 1986 | 12 | 8.3% | 7 | 54.2% | 3 | 25.8% | 1 | 10.8% | 0 | 0.8% | 1 | 8.3% |
| 1987 | 16 | 12.5% | 7 | 40.6% | 5 | 28.1% | 3 | 18.8% | 0 | 0.0% | 2 | 12.5% |
| 1988 | 14 | 0.0% | 6 | 42.9% | 5 | 35.7% | 2 | 14.3% | 1 | 7.1% | 0 | 0.0% |
| 1989 | 21 | 0.0% | 8 | 38.1% | 0 | 0.0% | 4 | 19.0% | 7 | 33.3% | 2 | 9.5% |
| 1990 | 32 | 6.3% | 11 | 35.0% | 7 | 20.6% | 2 | 6.9% | 9 | 28.1% | 3 | 9.4% |
| 1991 | 23 | 8.7% | 11 | 47.8% | 4 | 17.0% | 3 | 13.0% | 4 | 17.8% | 1 | 4.3% |
| 1992 | 26 | 3.8% | 7 | 26.9% | 8 | 29.6% | 1 | 3.8% | 9 | 35.8% | 1 | 3.8% |
| 1993 | 18 | 5.6% | 6 | 33.3% | 3 | 15.0% | 1 | 5.6% | 7 | 40.6% | 1 | 5.6% |
| 1994 | 24 | 8.3% | 11 | 44.6% | 8 | 32.5% | 1 | 4.6% | 4 | 18.3% | 0 | 0.0% |
| 1995 | 34 | 8.8% | 9 | 25.0% | 6 | 16.2% | 1 | 3.2% | 18 | 52.6% | 1 | 2.9% |
| 1996 | 33 | 18.2% | 8 | 23.9% | 9 | 26.4% | 2 | 6.4% | 11 | 34.2% | 3 | 9.1% |
| 1997 | 25 | 4.0% | 8 | 32.0% | 4 | 14.0% | 1 | 4.0% | 13 | 50.0% | 0 | 0.0% |
| 1998 | 25 | 20.0% | 6 | 23.6% | 5 | 20.8% | 1 | 4.0% | 12 | 47.6% | 1 | 4.0% |
| 1999 | 26 | 19.2% | 13 | 48.5% | 5 | 18.5% | 1 | 5.0% | 7 | 28.1% | 0 | 0.0% |
| 2000 | 23 | 17.4% | 4 | 19.1% | 4 | 17.4% | 0 | 0.9% | 14 | 62.6% | 0 | 0.0% |
| 2001 | 29 | 24.1% | 7 | 24.1% | 6 | 19.0% | 0 | 0.3% | 16 | 56.6% | 0 | 0.0% |
| 2002 | 31 | 12.9% | 9 | 29.0% | 6 | 19.4% | 1 | 3.5% | 15 | 48.1% | 0 | 0.0% |
| 2003 | 35 | 31.4% | 12 | 34.3% | 5 | 14.6% | 0 | 0.9% | 18 | 50.3% | 0 | 0.0% |
| 2004 | 35 | 25.7% | 12 | 33.1% | 4 | 10.9% | 1 | 1.4% | 19 | 54.6% | 0 | 0.0% |
| 2005 | 45 | 28.9% | 16 | 34.9% | 10 | 22.9% | 0 | 0.4% | 19 | 41.8% | 0 | 0.0% |
| 2006 | 30 | 23.3% | 14 | 47.7% | 2 | 5.7% | 0 | 0.7% | 14 | 46.0% | 0 | 0.0% |
| 2007 | 46 | 39.1% | 17 | 37.0% | 6 | 13.0% | 1 | 3.0% | 22 | 47.0% | 0 | 0.0% |
| 2008 | 39 | 33.3% | 16 | 41.5% | 4 | 9.2% | 0 | 0.5% | 19 | 48.7% | 0 | 0.0% |
| 2009 | 42 | 64.3% | 19 | 44.3% | 3 | 6.7% | 0 | 0.5% | 20 | 48.6% | 0 | 0.0% |
| 2010 | 40 | 65.0% | 24 | 59.0% | 4 | 9.5% | 0 | 0.3% | 13 | 31.3% | 0 | 0.0% |
| 2011 | 29 | 51.7% | 15 | 52.4% | 2 | 6.2% | 0 | 1.4% | 12 | 40.0% | 0 | 0.0% |
| 2012 | 46 | 28.3% | 26 | 57.3% | 2 | 3.6% | 0 | 0.0% | 18 | 39.1% | 0 | 0.0% |
| 2013 | 42 | 35.7% | 21 | 50.7% | 1 | 2.9% | 1 | 3.3% | 18 | 43.1% | 0 | 0.0% |
| 2014 | 54 | 22.2% | 29 | 53.5% | 3 | 5.2% | 0 | 0.7% | 22 | 40.6% | 0 | 0.0% |
| 2015 | 32 | 15.6% | 19 | 60.6% | 1 | 1.6% | 1 | 3.1% | 11 | 34.7% | 0 | 0.0% |
| 2016 | 34 | 35.3% | 20 | 59.4% | 2 | 4.7% | 0 | 0.3% | 12 | 35.6% | 0 | 0.0% |
| TOTAL | 969 | 25.1% | 402 | 41.5% | 132 | 13.6% | 33 | 3.4% | 384 | 39.7% | 17 | 1.8% |

[§] Multiple imputation was used to estimate and adjust for missing transmission category.

^{*}Percent with no reported exposure prior to multiple imputation adjustment.

^{**} Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation.

Section III – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017

| | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES | | | | | | | | | |
|--|---|-----|--------|--------|----------------|------------|-----------------------|--------------------------|-----------------|--|
| JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS | Population Age 13+ | No. | % of | Rate - | Linked to Care | | Late HIV Diagnoses | First CD4 Test Result | | |
| | 7.02.10. | NO. | Total | Kale | % 1 mo. | % 3 mo. | % | % | Median Count | |
| Calvert | 76,619 | 8 | 23.5% | 10.4 | *** | *** | *** | *** | *** | |
| Charles | 131,050 | 22 | 64.7% | 16.8 | 81.8% | 90.9% | 27.3% | 95.5% | 325 | |
| Saint Mary's | 92,866 | 4 | 11.8% | 4.3 | *** | *** | *** | *** | *** | |
| TOTAL | 300,535 | 34 | 100.0% | 11.3 | 70.6% | 82.4% | 20.6% | 85.3% | 382 | |

^{***} Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000. **Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2016, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through 6/30/2017

| | | ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES | | | | | | | | | |
|---|-----------------------|--|------------|------|-------------------------------------|-------------------------|--|--|--|--|--|
| JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS | POPULATION AGE 13+ | No. | % of Total | Rate | Mean Years from HIV Diagnosis | % Late HIV Diagnosis | | | | | |
| Calvert | 76,619 | 2 | 11.1% | 2.6 | *** | *** | | | | | |
| Charles | 131,050 | 12 | 66.7% | 9.2 | 2.2 | 66.7% | | | | | |
| Saint Mary's | 92,866 | 4 | 22.2% | 4.3 | *** | *** | | | | | |
| TOTAL | 300,535 | 18 | 100.0% | 6.0 | 4.2 | 55.6% | | | | | |

^{***} Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Rate: Number of adult/adolescent AIDS diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Mean Years from HIV Diagnosis: Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis, Reported through 6/30/2017

| Jurisdiction of Residence at Diagnosis | Population Age 13+ | ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS | | | ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS | | | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | |
|--|--------------------|--|---------------|-------|---|---------------|-------|--|---------------|-------|-------------------|
| | AGE 13T | No. | % of Total | Rate | No. | % of Total | Rate | No. | % of Total | Rate | Ratio (1 in X) |
| Calvert | 76,619 | 55 | 15.4% | 71.8 | 53 | 16.9% | 69.2 | 108 | 16.1% | 141.0 | 709 |
| Charles | 131,050 | 234 | 65.7% | 178.6 | 191 | 61.0% | 145.7 | 425 | 63.5% | 324.3 | 308 |
| Saint Mary's | 92,866 | 67 | 18.8% | 72.1 | 69 | 22.0% | 74.3 | 136 | 20.3% | 146.4 | 682 |
| TOTAL | 300,535 | 356 | 100.0% | 118.5 | 313 | 100.0% | 104.1 | 669 | 100.0% | 222.6 | 449 |

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 4 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis or Current Residence, Reported through 6/30/2017

| | | Adult/Adolescent Total Living HIV Cases | | | | | | | | | |
|-------------------|------------|---|---------------|------------|-------------------|-----|---------------|-------|-------------------|--------|--|
| JURISDICTION OF | POPULATION | R | esidence a | t Diagnosi | is | | | % | | | |
| RESIDENCE AGE 13+ | | No. | % of Total | Rate | Ratio (1 in X) | No. | % of Total | Rate | Ratio (1 in X) | Change | |
| Calvert | 76,619 | 108 | 16.1% | 141.0 | 709 | 130 | 16.7% | 169.7 | 589 | 20.4% | |
| Charles | 131,050 | 425 | 63.5% | 324.3 | 308 | 491 | 63.0% | 374.7 | 266 | 15.5% | |
| Saint Mary's | 92,866 | 136 | 20.3% | 146.4 | 682 | 158 | 20.3% | 170.1 | 587 | 16.2% | |
| TOTAL | 300,535 | 669 | 100.0% | 222.6 | 449 | 779 | 100.0% | 259.2 | 385 | 16.4% | |

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Table 5 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

| | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | | | | | |
|-------------------------|---|------------------------|----------------|-----------------|-------|---------|---------|-------|--|--|
| JURISDICTION OF CURRENT | | Recent CD4 Test Result | | | | | | | | |
| RESIDENCE | No. | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ | | |
| Calvert | 130 | 101 | 77.7% | 686 | 8.9% | 8.9% | 14.9% | 67.3% | | |
| Charles | 491 | 344 | 70.1% | 584 | 12.5% | 13.7% | 16.3% | 57.6% | | |
| Saint Mary's | 158 | 113 | 71.5% | 509 | 10.6% | 20.4% | 17.7% | 51.3% | | |
| TOTAL | 779 | 558 | 71.6% | 584 | 11.5% | 14.2% | 16.3% | 58.1% | | |

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 6 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

| | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | | | | |
|---------------------------|---|-------------------------------|-------------|--------------|------------------------|--|--|--|--|
| JURISDICTION OF RESIDENCE | | Recent Viral Load Test Result | | | | | | | |
| | No. | No. with Test | % with Test | % Suppressed | Median Unsuppressed | | | | |
| Calvert | 130 | 104 | 80.0% | 88.5% | 12,646 | | | | |
| Charles | 491 | 357 | 72.7% | 78.2% | 11,154 | | | | |
| Saint Mary's | 158 | 109 | 69.0% | 82.6% | 26,400 | | | | |
| TOTAL | 779 | 570 | 73.2% | 80.9% | 11,607 | | | | |

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

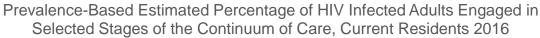
Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

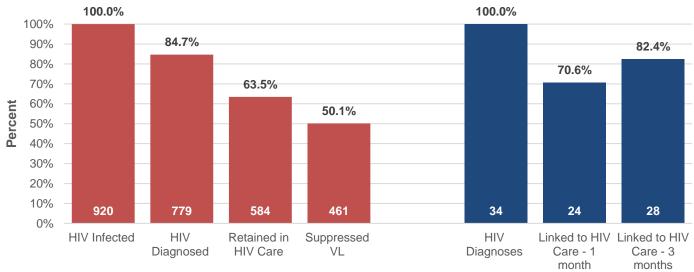
Section IV – Continuum of Care Cascades

In their 2011 article in Clinical Infectious Diseases, Gardner et al.¹ utilize a continuum of care "cascade" to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Southern Region Residents, Reported through 6/30/2017

The prevalence-based Southern Region Engagement in HIV Care Cascade (below) uses the most recent Centers for Disease Control and Prevention (CDC) estimate of the number of undiagnosed persons in Maryland (15.3%)² to generate an estimated number of HIV infected persons currently residing in the Southern Region. It then uses Maryland surveillance data to describe the number and percentage of persons living with HIV in the region on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.





Engagement in HIV Care

| Continuum of Care Stage | Living H | IIV Cases | Continuum of Care Stage | New Diagnoses | | |
|-------------------------|----------|------------|-------------------------------|---------------|------------|--|
| Continuum of Care Stage | Number | Percentage | Continuum of Care Stage | Number | Percentage | |
| HIV Infected | 920 | 100.0% | New HIV Diagnoses | 34 | 100.0% | |
| HIV Diagnosed | 779 | 84.7% | Linked to HIV Care – 1 Month | 24 | 70.6% | |
| Retained in HIV Care | 584 | 63.5% | Linked to HIV Care – 3 Months | 28 | 82.4% | |
| Suppressed VL | 461 | 50.1% | | | | |

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (15.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year. **Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

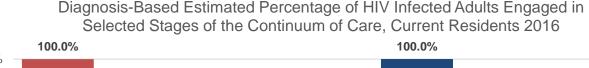
Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

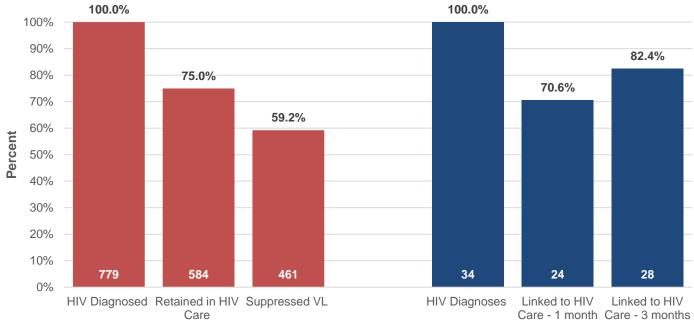
¹ Gardner et al, "The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection." Clin Infect Dis. 2011; 52 (6): 793-800.

²Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2015. HIV Surveillance Supplemental Report 2017;22(No. 2). http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published July 2017.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Southern Region Residents, Reported through 6/30/2017

The diagnosis-based Southern Region Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current Southern Region residents to describe the number and percentage of persons living with HIV in the Southern Region on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.





Engagement in HIV Care

| Continuum of Care Stage | Living H | IIV Cases | Continuum of Care Stage | New Diagnoses | | |
|-------------------------|----------------|------------|-------------------------------|---------------|------------|--|
| Continuum of Care Stage | Number | Percentage | Continuum of Care Stage | Number | Percentage | |
| HIV Diagnosed | 779 | 100.0% | New HIV Diagnoses | 34 | 100.0% | |
| Retained in HIV Care | 584 | 75.0% | Linked to HIV Care – 1 Month | 24 | 70.6% | |
| Suppressed VL | d VL 461 59.2% | | Linked to HIV Care – 3 Months | 28 | 82.4% | |

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year. **Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Age at HIV Diagnosis, Reported through 6/30/2017

| | | | | | | Repor ⁻ | TED HIV DIA | AGNOSE | :S | | | | |
|-------------------------|------------|---------|--------|--------|-----|--------------------|-------------|--------|-----------------|-------|-------------------|-----------------|--|
| AGE AT HIV DIAGNOSIS | POPULATION | on % of | | Data | Li | inked to C | are | | e HIV Inoses | First | t CD4 Test Result | | |
| DIAGNOSIS | | No. | Total | Rate - | No. | % 1 mo. | % 3 mo. | No. | % | No. | % | Median Count | |
| <5 (Pediatric) | 21,778 | 0 | 0.0% | 0.0 | | | | | | | | | |
| 5-12 (Pediatric) | 39,230 | 0 | 0.0% | 0.0 | | | | | | | | | |
| 13-19 | 35,638 | 4 | 11.8% | 11.2 | *** | *** | *** | *** | *** | *** | *** | *** | |
| 20-29 | 46,755 | 14 | 41.2% | 29.9 | 10 | 57.1% | 71.4% | *** | *** | 12 | 85.7% | 395 | |
| 30-39 | 45,339 | 5 | 14.7% | 11.0 | 5 | 100.0% | 100.0% | *** | *** | 5 | 100.0% | 31 | |
| 40-49 | 50,034 | 4 | 11.8% | 8.0 | *** | *** | *** | *** | *** | *** | *** | *** | |
| 50-59 | 56,858 | 6 | 17.6% | 10.6 | *** | *** | *** | *** | *** | *** | *** | *** | |
| 60+ | 65,911 | 1 | 2.9% | 1.5 | *** | *** | *** | *** | *** | *** | *** | *** | |
| TOTAL | 361,543 | 34 | 100.0% | 9.4 | 28 | 70.6% | 82.4% | 7 | 20.6% | 29 | 85.3% | 382 | |

^{***} Data withheld due to low population counts and/or case counts

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2016.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Rate: Number of HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 8 – HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

| Age On | | | To | TAL LIVING HIV CAS | ES | |
|------------|------------|-----|------------|--------------------|-------|-------------------|
| 12/31/2016 | Population | No. | % of Total | % Living with AIDS | Rate | Ratio (1 in X) |
| <5 | 21,778 | 1 | 0.1% | 0.0% | 4.6 | 21,778 |
| 5-12 | 39,230 | 2 | 0.3% | 0.0% | 5.1 | 19,614 |
| 13-19 | 35,638 | 5 | 0.6% | 20.0% | 14.0 | 7,127 |
| 20-29 | 46,755 | 107 | 13.6% | 27.1% | 228.9 | 436 |
| 30-39 | 45,339 | 154 | 19.6% | 35.1% | 339.7 | 294 |
| 40-49 | 50,034 | 191 | 24.3% | 58.6% | 381.7 | 261 |
| 50-59 | 56,858 | 237 | 30.1% | 63.7% | 416.8 | 239 |
| 60+ | 65,911 | 90 | 11.4% | 70.0% | 136.5 | 732 |
| TOTAL | 361,543 | 787 | 100.0% | 52.1% | 217.7 | 459 |

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2016.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

| | | Adult/Adolescent Total Living HIV Cases | | | | | | | | | | |
|------------|-----|---|-------------------------|-----------------|-------|---------|---------|-------|--|--|--|--|
| AGE ON | | | Recent CD4 Test Results | | | | | | | | | |
| 12/31/2016 | No. | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ | | | | |
| 13-19 | 4 | *** | *** | *** | *** | *** | *** | *** | | | | |
| 20-29 | 104 | 69 | 66.3% | 628 | 8.7% | 8.7% | 15.9% | 66.7% | | | | |
| 30-39 | 153 | 107 | 69.9% | 604 | 10.3% | 12.1% | 13.1% | 64.5% | | | | |
| 40-49 | 191 | 133 | 69.6% | 547 | 16.5% | 15.0% | 15.8% | 52.6% | | | | |
| 50-59 | 237 | 178 | 75.1% | 611 | 10.1% | 14.0% | 14.0% | 61.8% | | | | |
| 60+ | 90 | *** | *** | *** | *** | *** | *** | *** | | | | |
| TOTAL | 779 | 558 | 71.6% | 584 | 11.5% | 14.2% | 16.3% | 58.1% | | | | |

^{***} Data withheld due to low population counts and/or case counts

Table 10 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

| | | Adult/Add | DLESCENT TOTAL LIVING | HIV CASES | |
|------------|-----|---------------|-----------------------|-----------------|------------------------|
| AGE ON | | | Recent Viral Lo | oad Test Result | |
| 12/31/2016 | No. | No. with Test | % with Test | % Suppressed | Median Unsuppressed |
| 13-19 | 4 | *** | *** | *** | *** |
| 20-29 | 104 | 72 | 69.2% | 76.4% | 12,530 |
| 30-39 | 153 | 113 | 73.9% | 77.9% | 11,607 |
| 40-49 | 191 | 138 | 72.3% | 79.7% | 11,585 |
| 50-59 | 237 | 177 | 74.7% | 83.1% | 4,900 |
| 60+ | 90 | *** | *** | *** | *** |
| TOTAL | 779 | 570 | 73.2% | 80.9% | 11,607 |

^{***} Data withheld due to low population counts and/or case counts

Age on [date]: Age group of living cases on the specified date.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

| | | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES | | | | | | | | | |
|--------------|------------------------|---|--------|--------|----------------|------------|-----------------------|-------|-------------------|--|--|
| SEX AT BIRTH | Population Age 13+* | No. | % of | Rate - | Linked to Care | | Late HIV Diagnoses | | CD4 Test esult | | |
| | | NO. | Total | | % 1 mo. | % 3 mo. | % | % | Median Count | | |
| Male | 146,156 | 25 | 73.5% | 17.1 | 80.0% | 88.0% | *** | 88.0% | 379 | | |
| Female | 154,380 | 9 | 26.5% | 5.8 | 44.4% | 66.7% | *** | 77.8% | 488 | | |
| TOTAL | 300,535 | 34 | 100.0% | 11.3 | 70.6% | 82.4% | 20.6% | 85.3% | 382 | | |

| | | | | ADULT/A | OOLESCENT RE | PORTED HIV | DIAGNOSES | | |
|---|------------------------|-----|--------|---------|----------------|------------|-----------------------|--------------------------|-----------------|
| RACE/ETHNICITY | POPULATION AGE 13+* | No. | % of | Rate - | Linked to Care | | Late HIV Diagnoses | First CD4 Test Result | |
| | 7.02 101 | NO. | Total | Nate | % 1 mo. | % 3 mo. | % | % | Median Count |
| Hispanic | 13,285 | 1 | 2.9% | 7.5 | *** | *** | *** | *** | *** |
| Non-Hispanic | 287,250 | 33 | 97.1% | 11.5 | 69.7% | 81.8% | 21.2% | 84.8% | 379 |
| American Indian/Alaska Native, only | 1,404 | 0 | 0.0% | 0.0 | | | | | |
| Asian, only | 8,263 | 1 | 2.9% | 12.1 | *** | *** | *** | *** | *** |
| Black, only | 81,576 | 22 | 64.7% | 27.0 | 68.2% | 81.8% | *** | 81.8% | 367 |
| Native Hawaiian/ Other Pacific Islander, only | 233 | 0 | 0.0% | 0.0 | | | | | |
| White, only | 188,776 | 9 | 26.5% | 4.8 | 66.7% | 77.8% | *** | 88.9% | 435 |
| Multiracial/ Other | 6,998 | 1 | 2.9% | 14.3 | *** | *** | *** | *** | *** |
| TOTAL | 300,535 | 34 | 100.0% | 11.3 | 70.6% | 82.4% | 20.6% | 85.3% | 382 |

| | | | | ADULT/A | ADOLESCENT RE | PORTED HIV | DIAGNOSES | | |
|------------------|------------------------|-----|--------|---------|---------------|------------|-----------------------|--------------------------|-----------------|
| COUNTRY OF BIRTH | POPULATION AGE 13+* | No. | % of | Rate - | Linked to | Care | Late HIV Diagnoses | First CD4 Test Result | |
| | AGE 10T | NO. | Total | Nate | % 1 mo. | % 3 mo. | % | % | Median Count |
| United States | 274,574 | 32 | 94.1% | 11.7 | 68.8% | 81.3% | *** | 84.4% | 408 |
| Foreign-born | 15,386 | 2 | 5.9% | 13.0 | *** | *** | *** | *** | *** |
| Africa | | 1 | 2.9% | | *** | *** | *** | *** | *** |
| Asia | | 1 | 2.9% | | *** | *** | *** | *** | *** |
| Caribbean | | 0 | 0.0% | | | | | | |
| Central America | | 0 | 0.0% | | | | | | |
| Other | | 0 | 0.0% | | | | | | |
| Unknown | | 0 | 0.0% | | | | | | |
| TOTAL | 289,960 | 34 | 100.0% | 11.7 | 70.6% | 82.4% | 20.6% | 85.3% | 382 |

^{*} Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

^{**} Population data by country of birth are from the 2015 American Community Survey

^{***} Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000. Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 12 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

| | POPULATION . | | Adult/Adol | ESCENT TOTAL LIVING | HIV CASES | |
|--------------|--------------|-----|------------|---------------------|-----------|-------------------|
| SEX AT BIRTH | AGE 13+ | No. | % of Total | % Living with AIDS | Rate | Ratio (1 in X) |
| Male | 146,156 | 516 | 66.2% | 53.3% | 353.0 | 283 |
| Female | 154,380 | 263 | 33.8% | 49.8% | 170.4 | 586 |
| TOTAL | 300,535 | 779 | 100.0% | 52.1% | 259.2 | 385 |

| | POPULATION . | | Adult/Adol | ESCENT TOTAL LIVING | HIV CASES | |
|--|--------------|-----|------------|---------------------|-----------|-------------------|
| RACE/ETHNICITY | AGE 13+* | No. | % of Total | % Living with AIDS | Rate | Ratio (1 in X) |
| Hispanic | 13,285 | 28 | 3.6% | 57.1% | 210.8 | 474 |
| Non-Hispanic | 287,250 | 751 | 96.4% | 51.9% | 261.4 | 382 |
| American Indian/Alaska Native, only | 1,404 | 0 | | | | |
| Asian, only | 8,263 | 4 | 0.5% | 50.0% | 48.4 | 2,065 |
| Black, only | 81,576 | 542 | 69.6% | 51.8% | 664.4 | 150 |
| Native Hawaiian/ Other Pacific Islander, only | 233 | 0 | | | | |
| White, only | 188,776 | 168 | 21.6% | 48.8% | 89.0 | 1,123 |
| Multiracial/ Other | 6,998 | 37 | 4.7% | 67.6% | 528.7 | 189 |
| TOTAL | 300,535 | 779 | 100.0% | 52.1% | 259.2 | 385 |

| Country Of | Populatio | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | | | |
|--------------------|----------------|---|------------|--------------------|-------|-------------------|--|--|--|
| BIRTH | n Age 13+** | No. | % of Total | % Living with AIDS | Rate | Ratio (1 in X) | | | |
| United States | 274,574 | 731 | 93.8% | 52.9% | 266.2 | 375 | | | |
| Foreign-born | 15,386 | 25 | 3.2% | 56.0% | 162.5 | 615 | | | |
| Africa | | 12 | 1.5% | 58.3% | | | | | |
| Asia | | 4 | 0.5% | 25.0% | | | | | |
| Caribbean | | 2 | 0.3% | 50.0% | | | | | |
| Central America | | 4 | 0.5% | 100.0% | | | | | |
| Other | | 3 | 0.4% | 33.3% | | | | | |
| Unknown | | 23 | 3.0% | 21.7% | | | | | |
| TOTAL | 289,960 | 779 | 100.0% | 52.1% | 268.7 | 372 | | | |

^{*} Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

^{**} Population data by country of birth are from the 2015 American Community Survey

Table 13 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

| | | | ADULT/A | DOLESCENT TO | TAL LIVING HI | V CASES | | | | | |
|--------------|-----|------------------|----------------|-----------------|---------------|---------|---------|-------|--|--|--|
| Sex At Birth | | | | Recer | nt CD4 Test F | Result | | | | | |
| | No. | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ | | | |
| Male | 516 | 356 | 69.0% | 557 | 11.8% | 15.2% | 17.4% | 55.6% | | | |
| Female | 263 | 202 | 76.8% | 654 | 10.9% | 12.4% | 14.4% | 62.4% | | | |
| TOTAL | 779 | 558 | 71.6% | 584 | 11.5% | 14.2% | 16.3% | 58.1% | | | |

| | Adult/Adolescent Total Living HIV Cases | | | | | | | | | |
|--|---|------------------------|----------------|-----------------|-------|---------|---------|-------|--|--|
| RACE/ETHNICITY | | Recent CD4 Test Result | | | | | | | | |
| | No. | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ | | |
| Hispanic | 28 | 14 | 50.0% | 657 | 7.1% | 21.4% | 21.4% | 50.0% | | |
| Non-Hispanic | 751 | 544 | 72.4% | 584 | 11.6% | 14.0% | 16.2% | 58.3% | | |
| American Indian/Alaska Native, only | 0 | | | | | | | | | |
| Asian, only | 4 | *** | *** | *** | *** | *** | *** | *** | | |
| Black, only | 542 | 390 | 72.0% | 578 | 13.3% | 13.6% | 15.9% | 57.2% | | |
| Native Hawaiian/Other Pacific Islander, only | 0 | | | | | | | | | |
| White, only | 168 | 124 | 73.8% | 639 | 5.6% | 13.7% | 16.1% | 64.5% | | |
| Multiracial/Other | 37 | *** | *** | *** | *** | *** | *** | *** | | |
| TOTAL | 779 | 558 | 71.6% | 584 | 11.5% | 14.2% | 16.3% | 58.1% | | |

| | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | | | | | | |
|------------------|---|------------------|----------------|-----------------|---------------|---------|---------|-------|--|--|--|
| COUNTRY OF BIRTH | | | | Recer | nt CD4 Test F | Result | | | | | |
| | No. | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ | | | |
| United States | 731 | 540 | 73.9% | 592 | 11.5% | 13.9% | 15.9% | 58.7% | | | |
| Foreign-born | 25 | 12 | 48.0% | 395 | 16.7% | 25.0% | 33.3% | 25.0% | | | |
| Africa | 12 | 8 | 66.7% | 452 | 12.5% | 12.5% | 37.5% | 37.5% | | | |
| Asia | 4 | *** | *** | *** | *** | *** | *** | *** | | | |
| Caribbean | 2 | *** | *** | *** | *** | *** | *** | *** | | | |
| Central America | 4 | *** | *** | *** | *** | *** | *** | *** | | | |
| Other | 3 | *** | *** | *** | *** | *** | *** | *** | | | |
| Unknown | 23 | 6 | 26.1% | 678 | 0.0% | 16.7% | 16.7% | 66.7% | | | |
| TOTAL | 779 | 558 | 71.6% | 584 | 11.5% | 14.2% | 16.3% | 58.1% | | | |

^{***} Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 14 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

| | Adult/Adolescent Total Living HIV Cases | | | | | | | |
|--------------|---|-------------------------------|-------------|--------------|------------------------|--|--|--|
| Sex At Birth | | Recent Viral Load Test Result | | | | | | |
| SEX AT BIRTH | No. | No. with Test | % with Test | % Suppressed | Median Unsuppressed | | | |
| Male | 516 | 358 | 69.4% | 81.8% | 15,339 | | | |
| Female | 263 | 212 | 80.6% | 79.2% | 9,480 | | | |
| TOTAL | 779 | 570 | 73.2% | 80.9% | 11,607 | | | |

| | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | | | |
|--|---|-------------------------------|-------------|--------------|------------------------|--|--|--|
| RACE/ETHNICITY | | Recent Viral Load Test Result | | | | | | |
| | No. | No. with Test | % with Test | % Suppressed | Median Unsuppressed | | | |
| Hispanic | 28 | 15 | 53.6% | 80.0% | 15,339 | | | |
| Non-Hispanic | 751 | 555 | 73.9% | 80.9% | 11,154 | | | |
| American Indian/Alaska Native, only | 0 | | | | | | | |
| Asian, only | 4 | *** | *** | *** | *** | | | |
| Black, only | 542 | 400 | 73.8% | 78.3% | 11,820 | | | |
| Native Hawaiian/Other Pacific Islander, only | 0 | | | | | | | |
| White, only | 168 | 124 | 73.8% | 88.7% | 40,556 | | | |
| Multiracial/Other | 37 | *** | *** | *** | *** | | | |
| TOTAL | 779 | 570 | 73.2% | 80.9% | 11,607 | | | |

| | Adult/Adolescent Total Living HIV Cases | | | | | | | | |
|------------------|---|-------------------------------|-------------|--------------|------------------------|--|--|--|--|
| COUNTRY OF BIRTH | | Recent Viral Load Test Result | | | | | | | |
| Cooming of Limit | No. | No. with Test | % with Test | % Suppressed | Median Unsuppressed | | | | |
| United States | 731 | 549 | 75.1% | 81.1% | 11,260 | | | | |
| Foreign-born | 25 | 13 | 52.0% | 76.9% | 1,199 | | | | |
| Africa | 12 | 8 | 66.7% | 87.5% | 1,199 | | | | |
| Asia | 4 | *** | *** | *** | *** | | | | |
| Caribbean | 2 | *** | *** | *** | *** | | | | |
| Central America | 4 | *** | *** | *** | *** | | | | |
| Other | 3 | *** | *** | *** | *** | | | | |
| Unknown | 23 | 8 | 34.8% | 75.0% | 90,304 | | | | |
| TOTAL | 779 | 570 | 73.2% | 80.9% | 11,607 | | | | |

^{***} Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

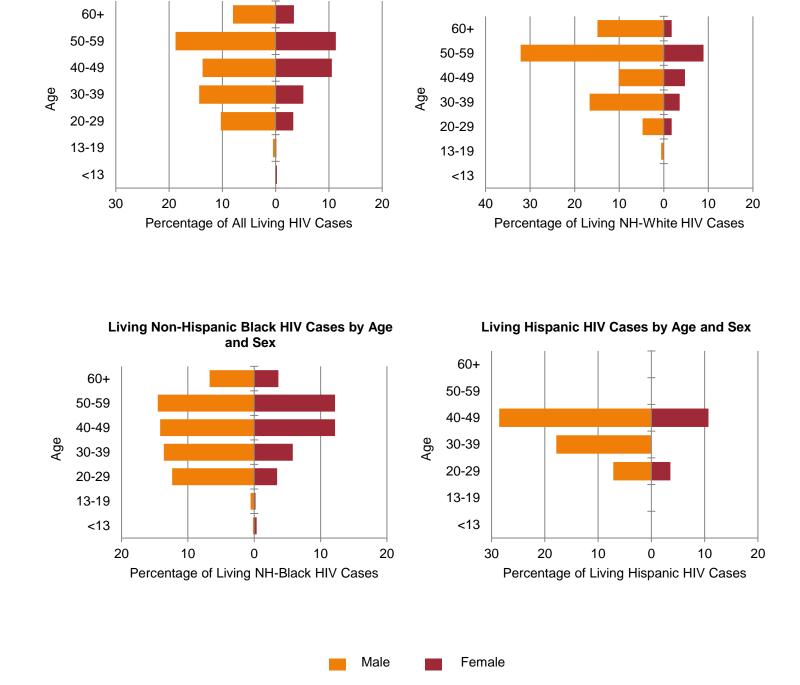
Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VII – HIV Cases by Expanded Demographics

Total Living HIV Cases by Age and Sex

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

Living Non-Hispanic White HIV Cases by Age and Sex



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

| | | Total I | LIVING MALE HIV | CASES | | |
|----------------------|----------------|----------|---------------------------------|---------------------------------|--------------------------------|--------------------------|
| | | | RACE/E | THNICITY | | |
| AGE ON 12/31/2016 | | Hispanic | Non- Hispanic Black, only | Non- Hispanic White, only | Non- Hispanic Other Race | TOTAL MALES BY AGE GROUP |
| | Population | 2,247 | 8,872 | 16,934 | 3,161 | 31,213 |
| 12 (Dodietrie) | Cases | 0 | 1 | 0 | 0 | 1 |
| <13 (Pediatric) | Rate | 0.0 | 11.3 | 0.0 | 0.0 | 3.2 |
| | Ratio (1 in X) | | 8,872 | | | 31,213 |
| | Population | 1,013 | 5,426 | 10,057 | 1,619 | 18,116 |
| 13-19 | Cases | 0 | 3 | 1 | 0 | 4 |
| 13-19 | Rate | 0.0 | 55.3 | 9.9 | 0.0 | 22.1 |
| | Ratio (1 in X) | | 1,808 | 10,057 | | 4,528 |
| | Population | 1,510 | 6,796 | 14,108 | 1,456 | 23,870 |
| 20-29 | Cases | 2 | 68 | 8 | 3 | 81 |
| 20-29 | Rate | 132.5 | 1,000.6 | 56.7 | 206.0 | 339.3 |
| | Ratio (1 in X) | 755 | 99 | 1,763 | 485 | 294 |
| | Population | 1,609 | 5,704 | 13,562 | 1,181 | 22,056 |
| 30-39 | Cases | 5 | 75 | 28 | 5 | 113 |
| 30-39 | Rate | 310.8 | 1,314.9 | 206.5 | 423.4 | 512.3 |
| | Ratio (1 in X) | 321 | 76 | 484 | 236 | 195 |
| | Population | 1,204 | 7,115 | 14,289 | 1,137 | 23,745 |
| 40-49 | Cases | 8 | 78 | 17 | 5 | 108 |
| 40-49 | Rate | 664.5 | 1,096.3 | 119.0 | 439.8 | 454.8 |
| | Ratio (1 in X) | 150 | 91 | 840 | 227 | 219 |
| | Population | 766 | 7,097 | 19,141 | 1,025 | 28,029 |
| 50-59 | Cases | *** | 80 | 54 | *** | 148 |
| 50-59 | Rate | *** | 1,127.2 | 282.1 | *** | 528.0 |
| | Ratio (1 in X) | *** | 88 | 354 | *** | 189 |
| | Population | 532 | 5,991 | 22,752 | 1,065 | 30,340 |
| 60+ | Cases | 0 | 37 | 25 | 1 | 63 |
| 00+ | Rate | 0.0 | 617.6 | 109.9 | 93.9 | 207.6 |
| | Ratio (1 in X) | | 161 | 910 | 1,065 | 481 |
| | Population | 8,881 | 47,001 | 110,843 | 10,644 | 177,369 |
| TOTAL MALES | Cases | 21 | 342 | 133 | 22 | 518 |
| BY RACE/ETHNICITY | Rate | 236.5 | 727.6 | 120.0 | 206.7 | 292.0 |
| TAOL/ ETTINIOTT | Ratio (1 in X) | 422 | 137 | 833 | 483 | 342 |

Age on [date]: Age group of living cases on the specified date.

Total Living Male HIV Cases: Reported HIV diagnoses with Male sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

| | | Total L | IVING FEMALE HI | V CASES | | |
|----------------------|----------------|----------|---------------------------------|---------------------------------|--------------------------------|----------------------------|
| | | | RACE/E | THNICITY | | |
| AGE ON 12/31/2016 | | Hispanic | Non- Hispanic Black, only | Non- Hispanic White, only | Non- Hispanic Other Race | TOTAL FEMALES BY AGE GROUP |
| | Population | 2,225 | 8,360 | 16,205 | 3,005 | 29,794 |
| <13 (Pediatric) | Cases | 0 | 2 | 0 | 0 | 2 |
| <13 (Pediatric) | Rate | 0.0 | 23.9 | 0.0 | 0.0 | 6.7 |
| | Ratio (1 in X) | | 4,179 | | | 14,897 |
| | Population | 1,045 | 5,329 | 9,621 | 1,527 | 17,523 |
| 13-19 | Cases | 0 | 1 | 0 | 0 | 1 |
| 13-19 | Rate | 0.0 | 18.8 | 0.0 | 0.0 | 5.7 |
| | Ratio (1 in X) | | 5,329 | | | 17,523 |
| | Population | 1,428 | 6,780 | 13,045 | 1,632 | 22,885 |
| 20.20 | Cases | 1 | 19 | 3 | 3 | 26 |
| 20-29 | Rate | 70.0 | 280.2 | 23.0 | 183.8 | 113.6 |
| | Ratio (1 in X) | 1,428 | 356 | 4,348 | 544 | 880 |
| | Population | 1,523 | 6,791 | 13,395 | 1,574 | 23,283 |
| 00.00 | Cases | 0 | 32 | 6 | 3 | 41 |
| 30-39 | Rate | 0.0 | 471.2 | 44.8 | 190.6 | 176.1 |
| | Ratio (1 in X) | | 212 | 2,232 | 524 | 567 |
| | Population | 1,163 | 8,614 | 14,828 | 1,684 | 26,289 |
| 40.40 | Cases | 3 | 67 | 8 | 5 | 83 |
| 40-49 | Rate | 258.0 | 777.8 | 54.0 | 296.9 | 315.7 |
| | Ratio (1 in X) | 387 | 128 | 1,853 | 336 | 316 |
| | Population | 826 | 7,877 | 18,678 | 1,448 | 28,829 |
| 50.50 | Cases | *** | 67 | 15 | *** | 89 |
| 50-59 | Rate | *** | 850.6 | 80.3 | *** | 308.7 |
| | Ratio (1 in X) | *** | 117 | 1,245 | *** | 323 |
| | Population | 666 | 8,056 | 25,300 | 1,549 | 35,571 |
| 00 | Cases | *** | 20 | 3 | *** | 27 |
| 60+ | Rate | *** | 248.3 | 11.9 | *** | 75.9 |
| | Ratio (1 in X) | *** | 402 | 8,433 | *** | 1,317 |
| | Population | 8,876 | 51,807 | 111,072 | 12,419 | 184,174 |
| TOTAL FEMALES | Cases | 7 | 208 | 35 | 19 | 269 |
| BY RACE/ETHNICITY | Rate | 78.9 | 401.5 | 31.5 | 153.0 | 146.1 |
| NACE/ETHNICITY | Ratio (1 in X) | 1,268 | 249 | 3,173 | 653 | 684 |

Age on [date]: Age group of living cases on the specified date.

Total Living Female HIV Cases: Reported HIV diagnoses with Female sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

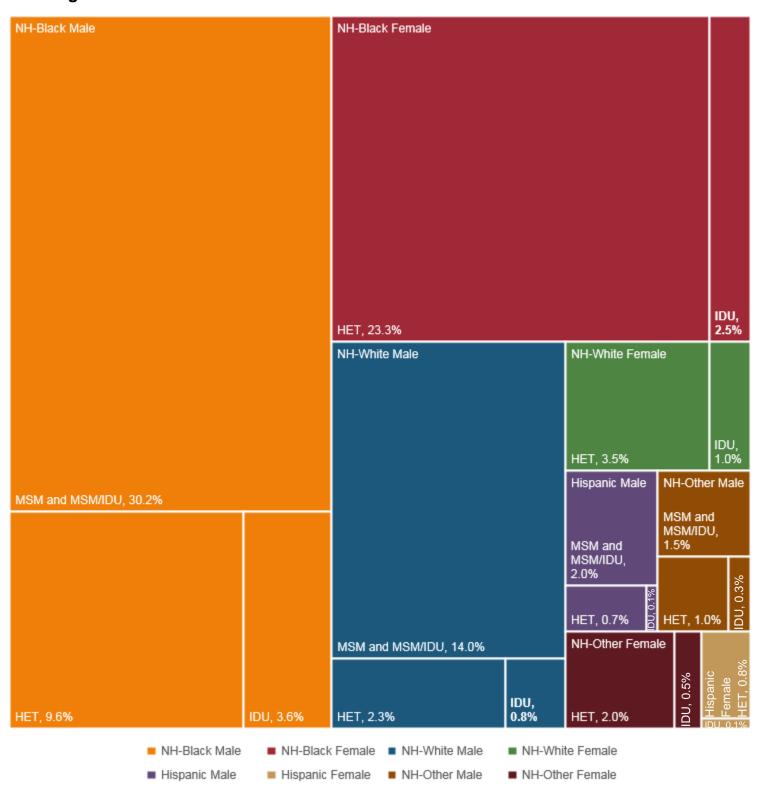
Population: Population estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VIII – HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016, Reported through 6/30/2017



Other exposure category not shown (<1%)

Multiple imputation was used to estimate and adjust for missing transmission category

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Table 17 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Exposure Category and Sex at Birth, Reported through 6/30/2017

| | | Ad | ULT/ADOLESCE | ENT REPORTED | HIV DIAGNOSE | S | | | |
|--|-----|--------------------|--------------|----------------|--------------|----------------------------|-----------------|-----------------------|--|
| Exposure Category** | No. | % of Total | Linked t | Linked to Care | | to Care Late HIV Diagnoses | | First CD4 Test Result | |
| | NO. | with - Exposure | % 1 mo. | % 3 mo. | % | % | Median Count | | |
| With Exposure | 22 | 100.0% | 72.7% | 81.8% | *** | 86.4% | 375 | | |
| Men who have Sex with Men (MSM) | 15 | 68.2% | 73.3% | 86.7% | *** | 86.7% | 382 | | |
| Injection Drug Users (IDU) | 0 | 0.0% | | | | | | | |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 0 | 0.0% | | | | | | | |
| Heterosexual Exposure (HET) | 7 | 31.8% | 71.4% | 71.4% | *** | 85.7% | 340 | | |
| Other Exposure | 0 | 0.0% | | | | | | | |
| No Reported Exposure | 12 | | 66.7% | 83.3% | *** | 83.3% | 671 | | |
| TOTAL | 34 | | 70.6% | 82.4% | 20.6% | 85.3% | 382 | | |

| | | A | DULT/ADOLESCE | ENT REPORTED | HIV DIAGNOSE | S | | | |
|--|-----|------------|---------------|----------------|--------------|---------------------------------|----------------|-----------------------|--|
| Male Exposure Category** | No. | % of Total | Linked t | Linked to Care | | nked to Care Late HIV Diagnoses | | First CD4 Test Result | |
| | NO. | Exposure | % 1 mo. | % 3 mo. | % | % | % Median Count | | |
| With Exposure | 18 | 100.0% | 77.8% | 88.9% | 88.9% | *** | *** | | |
| Men who have Sex with Men (MSM) | 15 | 83.3% | *** | *** | *** | *** | *** | | |
| Injection Drug Users (IDU) | 0 | 0.0% | | | | | | | |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 0 | 0.0% | | | | | | | |
| Heterosexual Exposure (HET) | 3 | 16.7% | *** | *** | *** | *** | *** | | |
| Other Exposure | 0 | 0.0% | | | | | | | |
| No Reported Exposure | 7 | | 6 | 85.7% | 85.7% | *** | *** | | |
| Total | 25 | | 22 | 80.0% | 88.0% | 6 | 24.0% | | |

| | | A | DULT/ADOLESC | ENT REPORTED | HIV DIAGNOSE | S | |
|-----------------------------|-----|-----------------|--------------|--------------|--------------------|-----------------------|-----------------|
| FEMALE EXPOSURE CATEGORY** | No. | % of Total with | Linked t | to Care | Late HIV Diagnoses | First CD4 Test Result | |
| | NO. | Exposure | % 1 mo. | % 3 mo. | % | % | Median Count |
| With Exposure | 4 | 100.0% | *** | *** | *** | *** | *** |
| Injection Drug Users (IDU) | 0 | 0.0% | | | | | |
| Heterosexual Exposure (HET) | 4 | 100.0% | *** | *** | *** | *** | *** |
| Other Exposure | 0 | 0.0% | | | | | |
| No Reported Exposure | 5 | • | *** | *** | *** | *** | *** |
| TOTAL | 9 | | 44.4% | 66.7% | *** | 77.8% | 488 |

^{** 2016} reported HIV exposure data are preliminary

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

^{***} Data withheld due to low population and/or case counts

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 18 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Exposure Category and Sex at Birth, Reported through 6/30/2017

| | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | | |
|--|---|-----------------------------|--------------------|--|--|--|--|
| Exposure Category | No. | % of Total with Exposure | % Living with AIDS | | | | |
| With Exposure | 595 | 100.0% | 56.3% | | | | |
| Men who have Sex with Men (MSM) | 285 | 47.9% | 48.8% | | | | |
| Injection Drug Users (IDU) | 37 | 6.2% | 67.6% | | | | |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 14 | 2.4% | 78.6% | | | | |
| Heterosexual Exposure (HET) | 257 | 43.2% | 61.9% | | | | |
| Other Exposures | 2 | 0.3% | 50.0% | | | | |
| No Reported Exposure* | 184 | | 38.6% | | | | |
| TOTAL | 779 | | 52.1% | | | | |

| | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | |
|--|---|-----------------------------|--------------------|--|--|--|
| Male Exposure Category | No. | % of Total with Exposure | % Living with AIDS | | | |
| With Exposure | 411 | 100.0% | 56.4% | | | |
| Men who have Sex with Men (MSM) | 285 | 69.3% | 48.8% | | | |
| Injection Drug Users (IDU) | 21 | 5.1% | 71.4% | | | |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 14 | 3.4% | 78.6% | | | |
| Heterosexual Exposure (HET) | 90 | 21.9% | 74.4% | | | |
| Other Exposures | 1 | 0.2% | 0.0% | | | |
| No Reported Exposure | 105 | | 41.0% | | | |
| TOTAL | 516 | | 53.3% | | | |

| | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | | |
|-----------------------------|---|-----------------------------|--------------------|--|--|--|--|
| Female Exposure Category | No. | % of Total with Exposure | % Living with AIDS | | | | |
| With Exposure | 184 | 100.0% | 56.0% | | | | |
| Injection Drug Users (IDU) | 16 | 8.7% | 62.5% | | | | |
| Heterosexual Exposure (HET) | 167 | 90.8% | 55.1% | | | | |
| Other Exposures | 1 | 0.5% | 100.0% | | | | |
| No Reported Exposure* | 79 | | 35.4% | | | | |
| TOTAL | 263 | | 49.8% | | | | |

^{*} Includes 4 HIV cases with Presumed Female Heterosexual exposure.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year

Table 19 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016 and Reported through 6/30/2017

| | Adult/Adolescent Total Living HIV Cases | | | | | | | |
|--|---|--------------------------|-----------|-----------------------------|---------------------------|-----------------------------|--|--|
| | Race/Ethnicity | | | | | | | |
| Exposure Category | Hi | ispanic | Non-Hispa | anic, Black, only | Non-Hispanic, White, only | | | |
| | No. | % of Total with Exposure | No. | % of Total with Exposure | No. | % of Total with Exposure | | |
| With Exposure | 20 | 100.0% | 408 | 100.0% | 130 | 100.0% | | |
| Men who have Sex with Men (MSM) | 11 | 55.0% | 182 | 44.6% | 81 | 62.3% | | |
| Injection Drug Users (IDU) | 0 | 0.0% | 23 | 5.6% | 9 | 6.9% | | |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | *** | *** | 8 | 2.0% | 5 | 3.8% | | |
| Heterosexual Exposure (HET) | *** | *** | 193 | 47.3% | 35 | 26.9% | | |
| Other Exposures | 0 | 0.0% | 2 | 0.5% | 0 | 0.0% | | |
| No Reported Exposure* | 8 | | 134 | | 38 | | | |
| TOTAL | 28 | | 542 | | 168 | | | |

| | Adult/Adolescent Total Living HIV Cases | | | | | | | | |
|--|---|-----------------------------|----------|-----------------------------|---------------------------|-----------------------------|--|--|--|
| | Race/Ethnicity | | | | | | | | |
| Male Exposure Category | Hispanic | | Non-Hisp | anic, Black, only | Non-Hispanic, White, only | | | | |
| | No. | % of Total with Exposure | No. | % of Total with Exposure | No. | % of Total with Exposure | | | |
| With Exposure | 16 | 100.0% | 271 | 100.0% | 104 | 100.0% | | | |
| Men who have Sex with Men (MSM) | 11 | 68.8% | 182 | 67.2% | 81 | 77.9% | | | |
| Injection Drug Users (IDU) | 0 | 0.0% | 15 | 5.5% | *** | *** | | | |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | *** | *** | 8 | 3.0% | *** | *** | | | |
| Heterosexual Exposure (HET) | *** | *** | 65 | 24.0% | 14 | 13.5% | | | |
| Other Exposures | 0 | 0.0% | 1 | 0.4% | 0 | 0.0% | | | |
| No Reported Exposure | 5 | | 69 | | 29 | | | | |
| TOTAL | 21 | | 340 | | 133 | | | | |

| | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | | | |
|-----------------------------|---|-----------------------------|----------|-----------------------------|-----------|-----------------------------|--|--|
| | Race/Ethnicity | | | | | | | |
| FEMALE EXPOSURE CATEGORY | Hispanic | | Non-Hisp | anic, Black, only | Non-Hispa | n-Hispanic, White, only | | |
| | No. | % of Total with Exposure | No. | % of Total with Exposure | No. | % of Total with Exposure | | |
| With Exposure | 4 | 100.0% | 137 | 100.0% | 26 | 100.0% | | |
| Injection Drug Users (IDU) | *** | *** | 8 | 5.8% | 5 | 19.2% | | |
| Heterosexual Exposure (HET) | *** | *** | 128 | 93.4% | 21 | 80.8% | | |
| Other Exposures | 0 | 0.0% | 1 | 0.7% | 0 | 0.0% | | |
| No Reported Exposure* | 3 | | 65 | | 9 | | | |
| TOTAL | 7 | | 202 | | 35 | | | |

^{*} Includes 1 Hispanic case and 3 non-Hispanic black cases with Presumed Female Heterosexual exposure

Table 20 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

| | | | Adult/Ad | OLESCENT TO | TAL LIVING F | IIV CASES | | | |
|--|-----|-------------------------|----------------|-----------------|--------------|-----------|---------|-------|--|
| Exposure Category | | Recent CD4 Test Results | | | | | | | |
| | No. | No. with Test | % with Test | Median Count | <200 | 200-349 | 350-499 | 500+ | |
| With Exposure | 595 | 438 | 73.6% | 562 | 11.9% | 15.8% | 16.7% | 55.7% | |
| Men who have Sex with Men (MSM) | 285 | 203 | 71.2% | 563 | 11.3% | 15.3% | 15.8% | 57.6% | |
| Injection Drug Users (IDU) | 37 | 22 | 59.5% | 313 | 18.2% | 40.9% | 18.2% | 22.7% | |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 14 | *** | *** | *** | *** | *** | *** | *** | |
| Heterosexual Exposure (HET) | 257 | 201 | 78.2% | 594 | 12.4% | 12.9% | 17.9% | 56.7% | |
| Other Exposures | 2 | *** | *** | *** | *** | *** | *** | *** | |
| No Reported Exposure* | 184 | 120 | 65.2% | 680 | 10.0% | 8.3% | 15.0% | 66.7% | |
| TOTAL | 779 | 558 | 71.6% | 584 | 11.5% | 14.2% | 16.3% | 58.1% | |

^{*} Includes 4 cases with Presumed Female Heterosexual exposure

Table 21 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

| | | ADULT/ADOLESCENT TOTAL LIVING HIV CASES | | | | | | | |
|--|-----|---|--------------------------------|-----------------|--------------|--|--|--|--|
| Exposure Category | | | Recent Viral Load Test Results | | | | | | |
| | No. | No. with Test | % with Test | % Suppressed | Median Count | | | | |
| With Exposure | 595 | 453 | 76.1% | 80.8% | 14,460 | | | | |
| Men who have Sex with Men (MSM) | 285 | 208 | 73.0% | 81.3% | 15,339 | | | | |
| Injection Drug Users (IDU) | 37 | 23 | 62.2% | 52.2% | 84,862 | | | | |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 14 | *** | *** | *** | *** | | | | |
| Heterosexual Exposure (HET) | 257 | 210 | 81.7% | 83.8% | 11,154 | | | | |
| Other Exposures | 2 | *** | *** | *** | *** | | | | |
| No Reported Exposure* | 184 | 117 | 63.6% | 81.2% | 5,290 | | | | |
| TOTAL | 779 | 570 | 73.2% | 80.9% | 11,607 | | | | |

^{*} Includes 4 cases with Presumed Female Heterosexual exposure

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

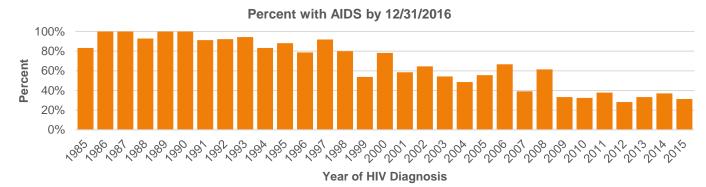
Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IX – Disease Progression and Mortality

Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2015, Reported through 6/30/2017

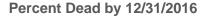
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2015 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2016 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2016, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017

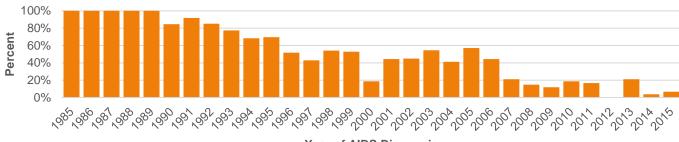


| | | | Adult/Ad | OLESCENT REPORTED I | | | | |
|----------------|-------|-----|------------------|-----------------------------|--------|-----------------------|---------|----------|
| YEAR OF HIV | No. — | Re | ported AIDS Diag | gnoses | Percer | nt with AIDS Diagn | | er HIV |
| DIAGNOSIS | NO. | No. | % with AIDS | Mean Years from HIV to AIDS | 1 Year | 2 Years | 5 Years | 10 Years |
| <1985 | 2 | 2 | 100.0% | 10.0 | 50.0% | 50.0% | 50.0% | 50.0% |
| 1985 | 6 | 5 | 83.3% | 9.7 | 16.7% | 16.7% | 33.3% | 50.0% |
| 1986 | 12 | 12 | 100.0% | 6.4 | 41.7% | 41.7% | 50.0% | 66.7% |
| 1987 | 16 | 16 | 100.0% | 6.0 | 37.5% | 37.5% | 56.3% | 81.3% |
| 1988 | 14 | 13 | 92.9% | 2.7 | 57.1% | 57.1% | 71.4% | 92.9% |
| 1989 | 21 | 21 | 100.0% | 2.2 | 61.9% | 61.9% | 85.7% | 95.2% |
| 1990 | 32 | 32 | 100.0% | 4.5 | 37.5% | 46.9% | 68.8% | 90.6% |
| 1991 | 23 | 21 | 91.3% | 2.9 | 52.2% | 56.5% | 69.6% | 87.0% |
| 1992 | 26 | 24 | 92.3% | 1.7 | 65.4% | 65.4% | 84.6% | 88.5% |
| 1993 | 18 | 17 | 94.4% | 1.5 | 77.8% | 83.3% | 88.9% | 88.9% |
| 1994 | 24 | 20 | 83.3% | 2.5 | 58.3% | 66.7% | 66.7% | 75.0% |
| 1995 | 34 | 30 | 88.2% | 3.4 | 44.1% | 47.1% | 64.7% | 79.4% |
| 1996 | 33 | 26 | 78.8% | 1.9 | 51.5% | 60.6% | 66.7% | 75.8% |
| 1997 | 25 | 23 | 92.0% | 2.7 | 64.0% | 64.0% | 68.0% | 84.0% |
| 1998 | 25 | 20 | 80.0% | 1.6 | 64.0% | 68.0% | 68.0% | 76.0% |
| 1999 | 26 | 14 | 53.8% | 1.7 | 38.5% | 42.3% | 46.2% | 50.0% |
| 2000 | 23 | 18 | 78.3% | 5.3 | 26.1% | 30.4% | 52.2% | 65.2% |
| 2001 | 29 | 17 | 58.6% | 0.6 | 51.7% | 51.7% | 58.6% | 58.6% |
| 2002 | 31 | 20 | 64.5% | 1.4 | 48.4% | 51.6% | 61.3% | 64.5% |
| 2003 | 35 | 19 | 54.3% | 1.1 | 42.9% | 42.9% | 48.6% | 54.3% |
| 2004 | 35 | 17 | 48.6% | 1.8 | 37.1% | 40.0% | 42.9% | 45.7% |
| 2005 | 45 | 25 | 55.6% | 2.3 | 37.8% | 40.0% | 44.4% | 48.9% |
| 2006 | 30 | 20 | 66.7% | 1.0 | 53.3% | 53.3% | 60.0% | 66.7% |
| 2007 | 46 | 18 | 39.1% | 1.3 | 28.3% | 30.4% | 37.0% | |
| 2008 | 39 | 24 | 61.5% | 1.0 | 48.7% | 51.3% | 56.4% | |
| 2009 | 42 | 14 | 33.3% | 1.6 | 21.4% | 23.8% | 28.6% | |
| 2010 | 40 | 13 | 32.5% | 0.9 | 22.5% | 27.5% | 32.5% | |
| 2011 | 29 | 11 | 37.9% | 0.9 | 27.6% | 34.5% | 34.5% | |
| 2012 | 46 | 13 | 28.3% | 0.5 | 23.9% | 28.3% | | |
| 2013 | 42 | 14 | 33.3% | 0.6 | 28.6% | 28.6% | | |
| 2014 | 54 | 20 | 37.0% | 0.3 | 35.2% | 35.2% | | |
| 2015 | 32 | 10 | 31.3% | 0.7 | 25.0% | | | |
| TOTAL | 935 | 569 | 60.9% | 2.3 | 40.9% | 43.9% | 51.0% | 57.2% |

Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2015, Reported through 6/30/2017

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/15 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2016 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2016, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017





| V | - 6 | AIDO | D: | ! - |
|-------|-----|-------|--------|------|
| Year | OT | | Diagno | ารเร |
| i oui | ٠. | /1100 | Diagin | 0.0 |

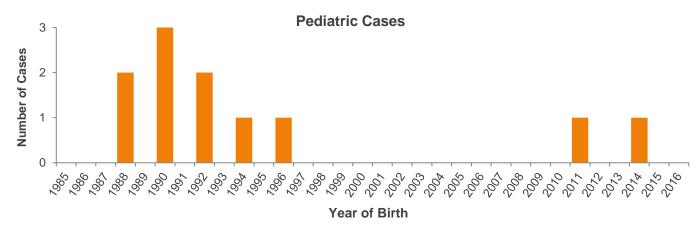
| Adult/Adolescent Reported AIDS Diagnoses | | | | | | | | |
|--|-----|------|--------------|--|--------------------------------------|---------|---------|----------|
| YEAR OF | _ | Repo | rted AIDS De | aths | Percent Alive by Years After AIDS Di | | | iagnosis |
| YEAR OF AIDS DIAGNOSIS | No. | No. | % Dead | Mean Years from AIDS to Death | 1 Year | 2 Years | 5 Years | 10 Years |
| <1985 | 1 | 1 | 100.0% | 0.0 | 0.0% | 0.0% | 0.0% | 0.0% |
| 1985 | 1 | 1 | 100.0% | 2.9 | 100.0% | 100.0% | 0.0% | 0.0% |
| 1986 | 5 | 5 | 100.0% | 1.1 | 40.0% | 20.0% | 0.0% | 0.0% |
| 1987 | 6 | 6 | 100.0% | 2.5 | 50.0% | 16.7% | 16.7% | 16.7% |
| 1988 | 8 | 8 | 100.0% | 2.3 | 62.5% | 50.0% | 12.5% | 0.0% |
| 1989 | 14 | 14 | 100.0% | 2.1 | 85.7% | 50.0% | 0.0% | 0.0% |
| 1990 | 13 | 11 | 84.6% | 3.6 | 76.9% | 61.5% | 38.5% | 23.1% |
| 1991 | 12 | 11 | 91.7% | 2.4 | 83.3% | 58.3% | 16.7% | 8.3% |
| 1992 | 27 | 23 | 85.2% | 3.0 | 85.2% | 59.3% | 22.2% | 22.2% |
| 1993 | 22 | 17 | 77.3% | 2.9 | 72.7% | 50.0% | 31.8% | 27.3% |
| 1994 | 19 | 13 | 68.4% | 3.2 | 89.5% | 52.6% | 47.4% | 42.1% |
| 1995 | 23 | 16 | 69.6% | 4.2 | 73.9% | 56.5% | 52.2% | 43.5% |
| 1996 | 29 | 15 | 51.7% | 4.9 | 86.2% | 79.3% | 72.4% | 58.6% |
| 1997 | 21 | 9 | 42.9% | 5.3 | 81.0% | 81.0% | 81.0% | 61.9% |
| 1998 | 24 | 13 | 54.2% | 6.7 | 83.3% | 83.3% | 79.2% | 62.5% |
| 1999 | 17 | 9 | 52.9% | 5.7 | 88.2% | 88.2% | 70.6% | 58.8% |
| 2000 | 16 | 3 | 18.8% | 7.1 | 100.0% | 100.0% | 87.5% | 87.5% |
| 2001 | 18 | 8 | 44.4% | 5.1 | 88.9% | 83.3% | 72.2% | 66.7% |
| 2002 | 20 | 9 | 45.0% | 3.5 | 85.0% | 80.0% | 65.0% | 60.0% |
| 2003 | 22 | 12 | 54.5% | 4.8 | 81.8% | 77.3% | 68.2% | 63.6% |
| 2004 | 17 | 7 | 41.2% | 4.2 | 82.4% | 76.5% | 76.5% | 64.7% |
| 2005 | 21 | 12 | 57.1% | 4.3 | 81.0% | 76.2% | 66.7% | 42.9% |
| 2006 | 27 | 12 | 44.4% | 2.5 | 81.5% | 81.5% | 63.0% | 55.6% |
| 2007 | 19 | 4 | 21.1% | 1.1 | 84.2% | 84.2% | 78.9% | |
| 2008 | 27 | 4 | 14.8% | 1.8 | 92.6% | 92.6% | 85.2% | |
| 2009 | 17 | 2 | 11.8% | 1.7 | 94.1% | 94.1% | 88.2% | |
| 2010 | 16 | 3 | 18.8% | 0.7 | 87.5% | 81.3% | 81.3% | |
| 2011 | 12 | 2 | 16.7% | 2.1 | 91.7% | 91.7% | 83.3% | |
| 2012 | 19 | 0 | 0.0% | | 100.0% | 100.0% | | |
| 2013 | 19 | 4 | 21.1% | 1.0 | 84.2% | 78.9% | | |
| 2014 | 26 | 1 | 3.8% | 0.3 | 96.2% | 96.2% | | |
| 2015* | 15 | 1 | 6.7% | 0.3 | 93.3% | | | |
| TOTAL | 553 | 256 | 46.3% | 3.6 | 84.8% | 76.5% | 65.1% | 59.0% |

^{*2015} AIDS deaths are preliminary.

Section X – Pediatric Cases

Figure 13 - Trends in Pediatric HIV Cases, 1985-2016, Reported through 6/30/2017

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2016, as Reported by Name through 6/30/2017



| | | PEDIATRIC REPORTED HIV | | PEDIATRIC TOTAL LIVING HIV CASES | | |
|--------------|----------------------|---------------------------------|----------------------------------|----------------------------------|------------------------------------|--|
| YEAR | No. by Year of Birth | No. by Year of HIV Diagnosis | No. by Year of AIDS Diagnosis | No. by Year of Death | No. Alive on 12/31 of Each Year | |
| <1985 | 1 | 0 | 0 | 0 | | |
| 1985 | 0 | 0 | 0 | 0 | 0 | |
| 1986 | 0 | 0 | 0 | 0 | 0 | |
| 1987 | 0 | 0 | 0 | 0 | 0 | |
| 1988 | 2 | 1 | 1 | 0 | 0 | |
| 1989 | 0 | 0 | 0 | 0 | 0 | |
| 1990 | 3 | 1 | 0 | 0 | 1 | |
| 1991 | 0 | 0 | 0 | 0 | 1 | |
| 1992 | 2 | 1 | 0 | 0 | 2 | |
| 1993 | 0 | 0 | 0 | 0 | 2 | |
| 1994 | 1_ | 3 | 3 | 0 | 4 | |
| 1995 | 0 | 0 | 0 | 1 | 3 | |
| 1996 | 1 | 2 | 2 | 1 | 4 | |
| 1997 | 0 | 0 | 0 | 0 | 4 | |
| 1998 | 0 | 0 | 1 | 0 | 4 | |
| 1999 | 0 | 0 | 0 | 1 | 3 | |
| 2000 | 0 | 0 | 0 | 0 | 3 | |
| 2001 | 0 | 0 | 0 | 0 | 4 | |
| 2002 | 0 | 1 | 0 | 0 | 5 5 | |
| 2003 2004 | 0 | 0 | 0 | 0 | 5 | |
| 2004 | 0 | 0 | 0 | 0 | 5 | |
| 2005 | 0 | 0 | 0 | 0 | 5 | |
| 2007 | 0 | 1 | 0 | 0 | 6 | |
| 2007 | 0 | 0 | 0 | 0 | 6 | |
| 2009 | 0 | 0 | 0 | 0 | 6 | |
| 2010 | 0 | 0 | 0 | 1 | 5 | |
| 2011 | 1 | 1 | 1 | 0 | 6 | |
| 2012 | 0 | 0 | 0 | 0 | 6 | |
| 2013 | 0 | 0 | 0 | 1 | 5 | |
| 2014 | 1 | 1 | 0 | 0 | 6 | |
| 2015 | 0 | 0 | 0 | 0 | 7 | |
| 2016 | 0 | 0 | 0 | 0 | 7 | |
| TOTAL | 12 | 12 | 8 | 5 | | |
| IOIAL | 12 | 12 | 0 | 3 | | |

Table 22 – Pediatric HIV Total Living HIV Cases, Diagnosed in Maryland, Alive on 12/31/2016, by Jurisdiction, Reported through 6/30/2017

| JURISDICTION OF RESIDENCE AT DIAGNOSIS | PEDIATRIC TOTAL LIVING HIV CASES | | |
|--|----------------------------------|------------|--|
| JURISDICTION OF RESIDENCE AT DIAGNOSIS | No. | % of Total | |
| Calvert | 2 | 28.6% | |
| Charles | 4 | 57.1% | |
| Saint Mary's | 1 | 14.3% | |
| TOTAL | 7 | 100.0% | |

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 23 – Pediatric Total Living HIV Cases, Diagnosed in Maryland, by Sex at Birth and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

| SEX AT BIRTH | PEDIATRIC TOTAL LIVING HIV CASES | | | |
|--------------|----------------------------------|------------|--|--|
| SEX AT BIRTH | No. | % of Total | | |
| Male | 3 | 42.9% | | |
| Female | 4 | 57.1% | | |
| TOTAL | 7 | 100.0% | | |

| RACE/ETHNICITY | PEDIATRIC TOTAL LIVING HIV CASES | | | |
|---|----------------------------------|------------|--|--|
| RACE/ETHNICITY | No. | % of Total | | |
| Hispanic | 0 | 0.0% | | |
| Non-Hispanic | 7 | 100.0% | | |
| American Indian/ Alaska Native, only | 0 | 0.0% | | |
| Asian, only | 0 | 0.0% | | |
| Black, only | 6 | 85.7% | | |
| Native Hawaiian/Other Pacific Islander, only | 0 | 0.0% | | |
| White, only | 1 | 14.3% | | |
| Multiracial/Other | 0 | 0.0% | | |
| Total | 7 | 100.0% | | |

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2016.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Population: Population estimate for 7/1/2016.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 test result performed in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.